

Climate change beliefs and savings behavior: a macroeconomic perspective

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Motivation: anticipation of climate change impacts

Climate change is a major challenge of our time.

- Estimated GDP loss of 1°C of warming: 1.2% (Burke et al., 2015), 12% (Bilal and Känzig, 2024)
- 54% in UK state 'one of the most important issues facing the country' (average 2022-25)

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➤ Savings as self-insurance?

What are the macroeconomic implications of climate change beliefs?

- Do beliefs over climate change affect **individual savings**?
- Does the effect on **capital accumulation** lead to with macroeconomic consequences?
- Does **disagreement** over climate impacts matter for aggregate or distributional outcomes?

Micro behavior: Do climate beliefs affect individual savings?

Macro effects: Do climate beliefs matter for aggregate and distributional outcomes?

Micro behavior: Do climate beliefs affect individual savings?

- Partial equilibrium consumption-savings model
 - Analytical expression for savings response to change in climate change beliefs
- Empirical evidence from UK
 - Observational: representative UK panel survey
 - Causal: specific purpose online questionnaire

Macro effects: Do climate beliefs matter for aggregate and distributional outcomes?

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Macro effects: Do climate beliefs matter for aggregate and distributional outcomes?

- Non-stationary general equilibrium model with incomplete markets and aggregate risk
 - Climate change as shift in stochastic productivity process
 - Uncertainty over trend in productivity
 - Heterogeneity in income, wealth and beliefs

Key take-aways: The effects of climate change beliefs

Micro: Climate beliefs increase individual savings...

Macro: ...and affect transitional macroeconomic outcomes under more frequent climate damages.

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Micro: Climate beliefs increase individual savings...

- Theory
 - Higher concern over productivity impacts increases savings
 - Non-monotone dependence on idiosyncratic state
- Empirical evidence
 - Significant positive relationship between climate change beliefs and savings choices:
Likelihood to save +9pp, savings share +1pp
 - Not fully attributable to preferences or exposure

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Macro: ...and affect transitional macroeconomic outcomes under more frequent climate damages.

- **Climate concern effect:** capital ↑, output loss from climate change ↓
NPV of output: -12% under optimistic relative to accurate initial beliefs
- Benefits the poor disproportionately: wealth inequality temporarily ↓
- Small but persistent negative impacts of mean preserving spread in initial beliefs

Literature and contributions

Climate change impacts on the macroeconomy

- Stochastic damages: Golosov et al. (2014), Cai and Lontzek (2019)
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Contribution: Amplified consequences of climate uncertainty in decentralized framework

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Beliefs and disagreement over aggregate (climate) process

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Contribution: Implications along the transition

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Contribution: Implications along the transition

Incomplete markets and aggregate risks: theory and computation

- Krusell and Smith (1998), Farhi et al. (2022), Broer et al. (2022), Fernández-Villaverde et al. (2023), Bilal (2023), Auclert et al. (2021), Moll (2024),

Contribution: Non-stationarity in aggregate process, global solution method

Predictions in partial equilibrium

Savings response to a change in climate change beliefs

Choose consumption to maximize **expected** life-time utility, subject to budget constraint.

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Two types of uncertainty affect income:

- Aggregate state: productivity
 - Pins down average wages and asset returns
 - Two possible states: low and high $\{\zeta^L, \zeta^H\}$
 - Possibly **dependent** on climate change
- Idiosyncratic state: demographics, asset holdings
 - Affects labor and capital income
 - **Independent** of climate change

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How do savings depend on beliefs over climate change?

- How do consumption choices respond to changes in **perceived probabilities** of aggregate states?
- First order response to changes in beliefs from Euler equation (cf. Farhi et al., 2022)

First order consumption response

An increase in $p_1 = \mathbb{P}(\text{low productivity in } t = 1)$ affects consumption choice in period 0:

$$\frac{dc_0}{c_0} = -\varepsilon(c_0) \cdot MPS_0 \cdot \mathcal{D}_0 \ dp_1 \geq 0 \quad \text{for } dp_1 > 0.$$

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 - Small if **borrowing constrained**
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Responses to perturbations in future probabilities dp_t , $t > 1$

- History-dependence and risk-adjusted measure over idiosyncratic states

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Take-aways:

1. Concern over adverse macro risks increases individual savings
2. Opposing forces of current idiosyncratic state: large effect for **poor savers**

Empirical evidence

Empirical support for theoretical predictions

Model predictions:

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Two types of UK survey evidence:

1. Observational: large, representative UK panel survey
2. Causal: specific purpose online questionnaire

Observational data

UK Longitudinal Household Survey, waves 4 and 10 (2012-13, 2018-19)

- Construct index about climate change concern
- Savings variables (binary and amount)
- Demographic indicators
 - education, income, residence (LSOA), age, children

Exposure

- Flood data matched on residence

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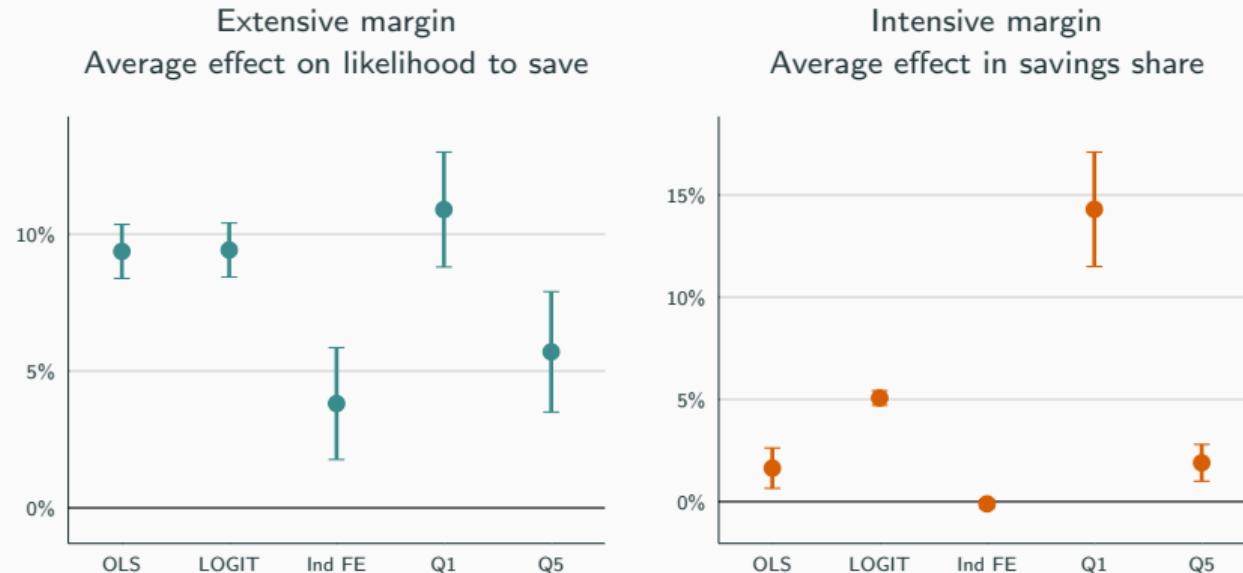
Addresses two main concerns:

1. Preferences over risk and time → Individual fixed effects
2. Idiosyncratic exposure → Flood exposure, area fixed effects

Empirical results



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Specific purpose online survey

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- For each of 2 different climate impact scenarios: Increasing \mathcal{I} , Constant \mathcal{C}
- Presented in random order

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Questionnaire

- on overall concern, beliefs over specific mechanisms, personal savings behavior

Key statistic: relative effect of scenario on marginal savings $\Delta s = \frac{\text{Saved } |\mathcal{I} - \text{Saved } |\mathcal{C}}{\text{Saved } |\mathcal{C}|}$

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		Income		
		low	medium	high
Δs	Full sample	10.0%***	7.2%**	5.3%
Observations	543	178	230	81

Survey design

Sample

Questionnaire

Key take-aways:

- Passthrough of adverse aggregate risks: savings ↑, depending on idiosyncratic state
- Empirical evidence supporting positive relationship between climate concern and savings choices

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Open question: Do climate change beliefs matter for the macroeconomy?

- How does additional capital accumulation affect output losses during climate transition?
 - Does the observed disagreement over climate change matter for macroeconomic outcomes?
- Dynamic general equilibrium model

General equilibrium model

General equilibrium model: endogenous prices

Households

- are subject to idiosyncratic shocks: income and life-cycle;
- consume and save to maximize EU, given budget constraint and borrowing limit.

Representative firm

- produces using capital and labor;
- pays wages and interest;
- is subject to productivity shocks $\zeta_t \in \{\zeta^L, \zeta^H\}$, $\zeta^L < \zeta^H$.

Market clearing

- implies aggregate capital equals households' asset holdings.

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Climate change

- causes exogenous and deterministic increase in global temperature T_t ;
- which is known at time $t = 0$ and may affect the frequency of low productivity states.

→ Non-stationarity

Probability of adverse aggregate shock is given by $\mathbb{P}(\zeta_t = \zeta^L) = p^{1-\gamma T_t}$ with **unknown** parameter γ

- Two possible states of the world: $\gamma \in \{0, \bar{\gamma}\}$
- Individual initial belief $\pi_{it} = \mathbb{P}_0(\gamma = \bar{\gamma})$
- Bayesian updating

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Impacts modeled via **measure**, not sample space of aggregate process

- Any draw $\{\zeta_t\}_t$ possible under all beliefs
- Implicit level effect

Consumer problem

Aggregate capital is both **endogenous outcome** and **input for decision** of forward looking consumer.

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Assumption: bounded rationality

Decisions are based on Perceived Law of Motion (PLM)

$$K' = \mathcal{H}(K; \mathcal{X}) \quad \text{for some explanatory variables } \mathcal{X}.$$

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How to choose PLM?

1. Find self-justified equilibrium to approximate rational expectations (Krusell and Smith, 1998)
 - Estimate \mathcal{H} on simulated data, iterate until convergence
 - In stationary setting: log-linear \mathcal{H} , $\mathcal{X} = \zeta$ performs well

→ extend idea to non-stationary framework
2. Alternative to address Moll (2024) critique: adaptive expectations with varying degree of memory

Fix some functional form

- Obvious candidates for \mathcal{X} : shock ζ , temperature T , personal belief π
- Guess for \mathcal{H}
 - linear in $\pi \rightarrow$ estimate only for $\pi \in \{0, 1\}$

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Generate simulated data

- Non-stationarity: **ensemble** of shock sequences
 - Stratified sample: Match theoretical mean and variance within each period

Iterate on parameters until convergence.

Stratification procedure

Model selection

Adaptive expectations with memory

Model performance

Heterogeneity in forecasts

For period t : Ψ_t distribution of agents over demographics, asset holdings and beliefs.

Dynamic equilibrium

For a given draw $\{\zeta_t\}_t$, initial distribution Ψ_0 and PLM \mathcal{H} , the *dynamic equilibrium* of the economy is given by a sequence of distributions $\{\Psi_t\}_{t \geq 0}$ so that:

1. Each period, households and firms optimize given their beliefs; markets clear.
2. Ψ_t evolves according to (i) demographic dynamics, (ii) savings choices, and (iii) Bayes' formula.

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Summary statistics

- Stochastic steady state
- Ensemble averages

Earnings and life-cycle:

- AR(1) process for skills estimated on UK panel data
- Expected duration working life (retirement): 40 (20) years; replacement rate 60%

Aggregate shocks: Effect of climate change on UK productivity

- AR(1) process for temperature, long-run increase of 0.9 deg within 75 years.
- Meta study Rising et al. (2022) estimates output losses:

1.1% in 2022, 3.3% by 2050, 7.4% by 2100

- Bad states $p_0 = 0.15$, $\zeta^L = 0.93$:

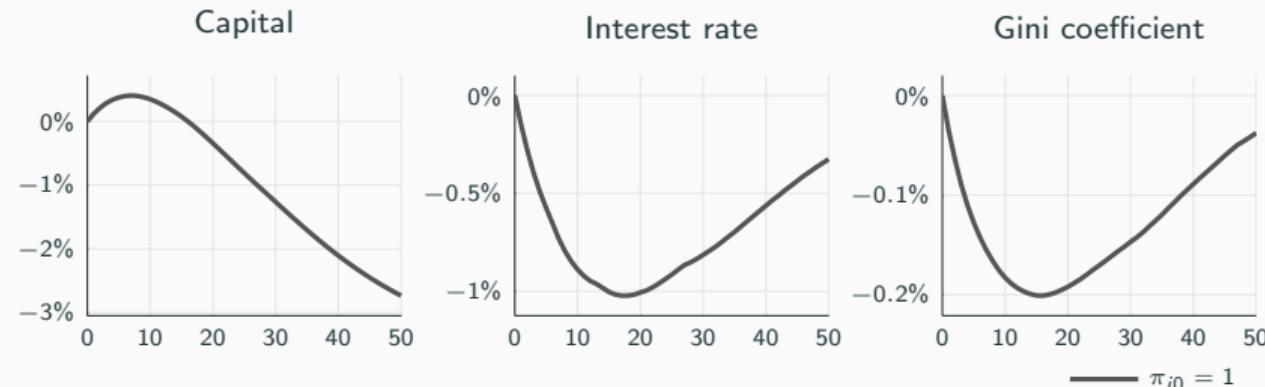
$$\mathbb{E}(\zeta_0) = 0.9895, \mathbb{E}(\zeta_{100}) = 0.965$$

The macroeconomic effects of climate beliefs

The climate transition

Baseline: $\bar{\gamma} = \gamma$

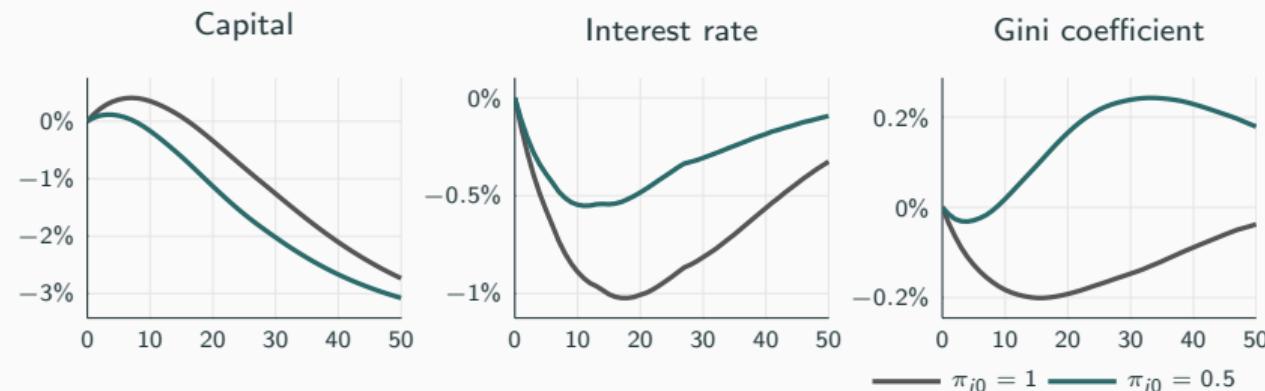
How does the climate affect the macroeconomy if everyone expects productivity impacts?



Ensemble averages over time, relative to initial SSS

The role of beliefs during the climate transition

Capital ↓ if agents believe 50% chance of no productivity impacts
→ wealth inequality rises



Ensemble averages over time, relative to initial SSS

The role of beliefs during the climate transition

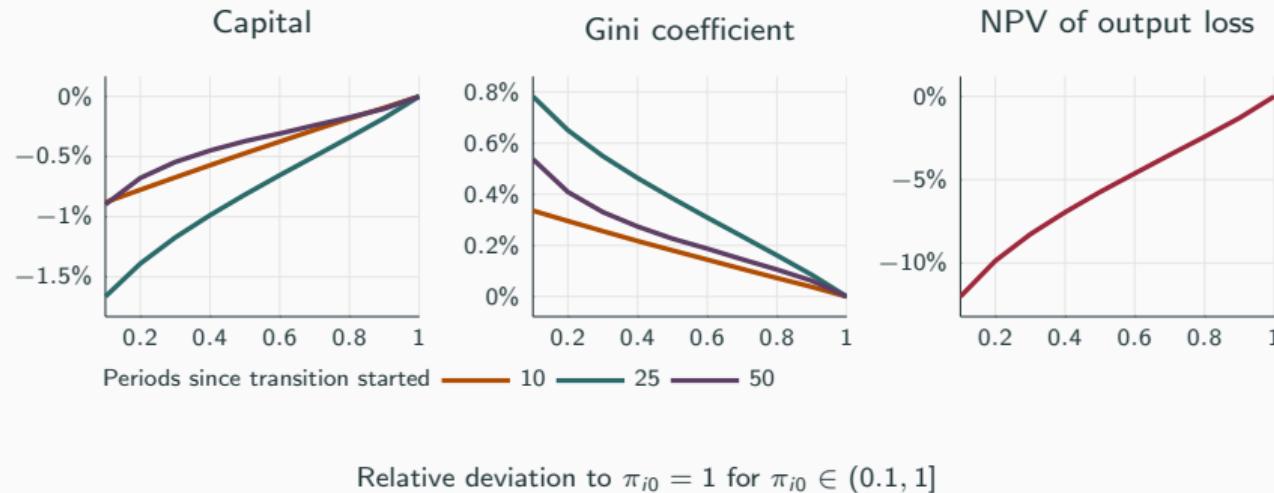
Learning: no long run divergence



Relative deviation to $\pi_{i0} = 1$ for $\pi_{i0} \in (0.1, 1]$

The role of beliefs during the climate transition

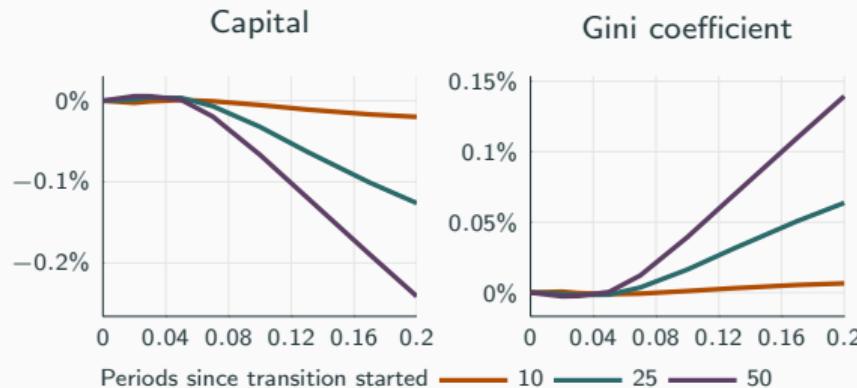
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Belief dispersion

Mean preserving spread: Capital \downarrow , Gini \uparrow

More persistent: deviation rises even after 25 years.



Relative deviation to $\text{Var}(\pi_{i0}) = 0$ for $\text{Var}(\pi_{i0}) \in [0, 0.2]$ at $\mathbb{E}(\pi_{i0}) = 0.7$.

But effect on output loss very small

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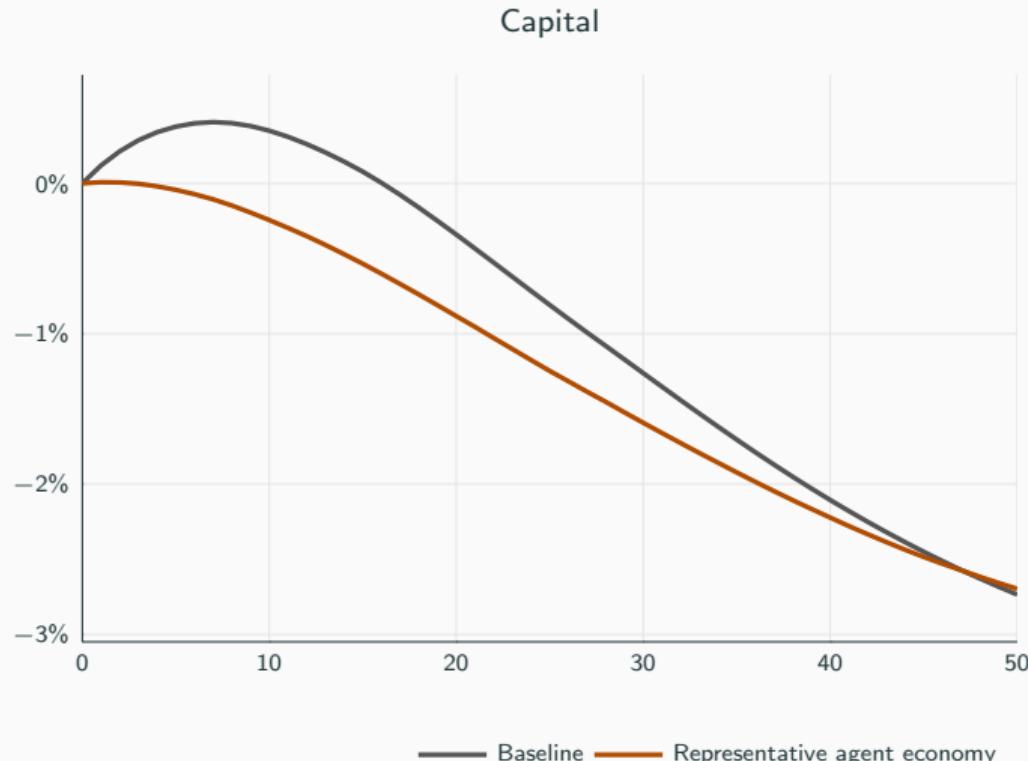
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Mechanisms: The role of incomplete markets



Conclusion: Beliefs over climate change matter for the macroeconomy.

Micro behavior

- Climate concern increases individual savings in model of aggregate climate damages
- Consistent with UK survey evidence

Macro effects

- Climate concern effect: capital increases in short-run, attenuates climate damages
- Heterogeneous impacts: decreasing wealth inequality
- Disagreement plays small but persistent role

Beliefs over aggregate risks in incomplete markets

- Development and solution of non-stationary model
- Applicable to range of questions on uncertainty and disagreement over structural shifts

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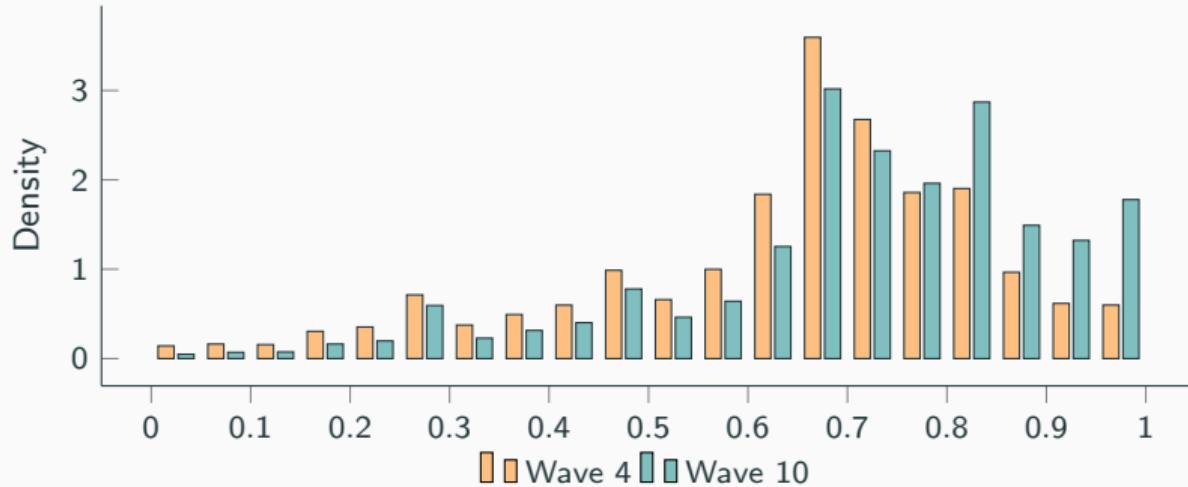
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Descriptive Statistics: Index



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